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- (54) ASSAY OF EFFICACY IN TERMS OF THERAPY FOR METALLOPROTEINASE INHIBITOR, NEW INHIBITOR, AND ITS USE IN THERAPY
- (57) Abstract:

(30) Priority:

PROBLEM TO BE SOLVED: To provide a method for quantitatively and highly reliably evaluating the activity of a substance inhibiting an enzyme existing in snake venom and mammal body, and to obtain the inhibitor evaluated by the method.

SOLUTION: (A) Using zinc-dependent metalloproteinase existing in the venom of snakes belonging to Grotalidae or Viperidae, the inhibitory activity of a peptide analogue having ability to inhibit the above enzyme is subjected to primary screening. Subsequently, (B) the inhibitory activity of the abovementioned peptide analogue against the zinc-dependent metalloproteinase existing in mammal body is assayed. Then, (C) the activity of the peptide analogue for a relevant morbid state is demonstrated by the standard pharmacological examination. The peptide analogue is e.g. a compound of formula I [A is a group of formula II; Y is OH, NH2, NHOH, etc.; R4 is CH-(CH3)2, phenyl, etc.; X is 5-methoxy-1-indanon-3-acetyl, naphthoyl, etc.].

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X-A-Cyt-Y R4

NH-CH-CO

CH2-

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